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Amendments to the claims (this listing replaces all prior versions):

1. (currently amended) A method comprising:

from at least two types of endian conversion, including a first type each of which can be performed on a portion of data stored within a memory system and a second type which can be performed on the same portion of data stored within the memory system, determining a type; and writing an entry to a memory management table based on the determining.

- 2. (previously presented) The method of claim 1 wherein writing an entry to a memory management table further includes specifying the location of the portion of data within the memory system.
- 3. (previously presented) The method of claim 1 wherein the at least two types of endian conversion include a data coherent conversion.
- 4. (previously presented) The method of claim 1 wherein the at least two types of endian conversion include an address coherent conversion.
- 5. (previously presented) The method of claim 1 wherein the entry includes a single bit for specifying one of two types of endian conversion.
- 6. (previously presented) The method of claim 1 wherein the entry maps a virtual memory address to a physical memory address.
- 7. (currently amended) A method comprising:

maintaining a memory management table that includes one or more entries, each entry defining a location of a portion of data stored within a memory system and indicating a type determined from at least two types of endian conversion, including a first type each of which can

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be performed on the portion of data stored within the memory system and a second type which can be performed on the same portion of data stored within the memory system.

8. (previously presented) The method of claim 7 wherein the at least two types of endian conversion include a data coherent conversion.

9. (previously presented) The method of claim 7 wherein the at least two types of endian

conversion include an address coherent conversion.

10. (previously presented) The method of claim 7 wherein the entry includes a single bit for

specifying one of the at least two types of endian conversion.

11. (original) The method of claim 7 wherein the portion of data is stored at a physical memory

address within a memory system.

12. (previously presented) The method of claim 11 wherein the entry maps the physical address

at which the portion of data is stored to a virtual address accessible by a processor.

13. (currently amended) A computer program product residing on a computer readable medium

having a plurality of instructions stored thereon which, when executed by the processor, cause

that processor to:

from at least two types of endian conversion, including a first type each of which can be

performed on a portion of data stored within a memory system and a second type which can be

performed on the same portion of data stored within the memory system, determine a type; and

write an entry to a memory management table based on the determining.

14. (previously presented) The computer program product of claim 13 wherein the at least two

types of endian conversion include a data coherent conversion.

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15. (previously presented) The computer program product of claim 13 wherein the at least two types of endian conversion include an address coherent conversion.

- 16. (previously presented) The computer program product of claim 13 wherein the entry includes a single bit for specifying one of two types of endian conversion.
- 17. (previously presented) The computer program product of claim 13 wherein the entry maps a virtual memory address to a physical memory address.
- 18. (currently amended) A computer program product residing on a computer readable medium having a plurality of instructions stored thereon which, when executed by the processor, cause that processor to:

maintain a memory management table that includes one or more entries each entry defining a location of a portion of data stored within a memory system and indicating a type determined from at least two types of endian conversion, including a first type each of which can be performed on the portion of data stored within the memory system and a second type which can be performed on the same portion of data stored within the memory system.

- 19. (previously presented) The computer program product of claim 18 wherein the at least two types of endian conversion include a data coherent conversion.
- 20. (previously presented) The computer program product of claim 18 wherein the at least two types of endian conversion include an address coherent conversion.
- 21. (previously presented) The computer program product of claim 18 wherein the entry includes a single bit for specifying one of the at least two types of endian conversion.

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22. (original) The computer program product of claim 18 wherein the portion of data is stored

at a physical memory address within a memory system.

23. (previously presented) The computer program product of claim 22 wherein the entry maps

the physical address at which the portion of data is stored to a virtual address accessible by a

processor.

24. (currently amended) A memory management table residing in computer memory

comprising:

one or more table entries, with each table entry having a first field for defining the

location of a portion of data stored within a memory system and a second field for defining a

type determined from at least two types of endian conversion, including a first type each of

which can be performed on the portion of data stored within the memory system and a second

type which can be performed on the same portion of data stored within the memory system.

25. (previously presented) The memory management table of claim 24 wherein each entry

includes a single bit for specifying one of the at least two types of endian conversion.

26. (previously presented) The memory management table of claim 24 wherein the at least two

types of endian conversion include a data coherent conversion.

27. (previously presented) The memory management table of claim 24 wherein the at least two

types of endian conversion include an address coherent conversion.

28. (previously presented) The memory management table of claim 24 wherein each entry maps

a virtual memory address to a physical memory address.

29. (currently amended) A system comprising:

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a first processor for processing data in a first endian format;

- a second processor for processing data in a second endian format;
- a bus for interconnecting the first and second processors;

an endian converter for converting portions of data from the first endian format to the second endian format; and

a memory management table including one or more entries, with each entry defining a location for a portion of data <u>stored within a memory system</u> to be converted from the first endian format to the second endian format, and indicating a type determined from at least two types of endian conversion, <u>including a first type each of</u> which can be performed on the portion of data <u>stored within the memory system</u> by the endian converter <u>and a second type which can be performed on the same portion of data stored within the memory system</u>.

- 30. (previously presented) The system of claim 29 wherein the at least two types of endian conversion include a data coherent conversion.
- 31. (previously presented) The system of claim 29 wherein the at least two types of endian conversion include an address coherent conversion.
- 32. (original) The system of claim 29 wherein the first processor is a little-endian processor.
- 33. (original) The system of claim 29 wherein the second processor is a big-endian processor.
- 34. (currently amended) A computer architecture comprising:
 - a networking device, including:
 - a first processor for processing data in a first endian format;
 - a second processor for processing data in a second endian format;
 - a bus for interconnecting the first and second processors;

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an endian converter for converting portions of data from the first endian format to the second endian format; and

a memory management table including one or more entries, with each entry defining a location for a portion of data <u>stored within a memory system</u> to be converted from the first endian format to the second endian format, and indicating a type determined from at least two types of endian conversion, <u>including a first type each of</u> which can be performed on the portion of data <u>stored within the memory system</u> by the endian converter <u>and a second type</u> which can be performed on the same portion of data <u>stored within the memory system</u>.

- 35. (previously presented) The architecture of claim 34 wherein the at least two types of endian conversion include a data coherent conversion.
- 36. (previously presented) The architecture of claim 34 wherein the at least two types of endian conversion include an address coherent conversion.
- 37. (original) The architecture of claim 34 wherein the first processor is a little-endian processor.
- 38. (original) The architecture of claim 34 wherein the second processor is a big-endian processor.
- 39. (currently amended) A method comprising:

accessing a table entry of a memory management table, wherein the table entry is associated with a portion of data stored within a memory system and includes a conversion-type indicator; and

from at least two types of endian conversion, including a first type each of which can be performed on the portion of data stored within the memory system and a second type which can

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be performed on the same portion of data stored within the memory system, determining a type

based on the conversion-type indicator.

40. (previously presented) The method of claim 39 wherein the at least two types of endian

conversion include a data coherent conversion.

41. (previously presented) The method of claim 39 wherein the at least two types of endian

conversion include an address coherent conversion.

42. (original) The method of claim 39 wherein the conversion-type indicator includes a single

bit for specifying one of the at least two types of endian conversion.

43. (currently amended) A computer program product residing on a computer readable medium

having a plurality of instructions stored thereon which, when executed by the processor, cause

that processor to:

access a table entry of a memory management table, wherein the table entry is associated

with a portion of data stored within a memory system and includes a conversion-type indicator;

and

from at least two types of endian conversion, including a first type each of which can be

performed on the portion of data stored within the memory system and a second type which can

be performed on the same portion of data stored within the memory system, determine a type

based on the conversion-type indicator.

44. (previously presented) The computer program product of claim 43 wherein the at least two

types of endian conversion include a data coherent conversion.

45. (previously presented) The computer program product of claim 43 wherein the at least two

types of endian conversion include an address coherent conversion.

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46. (previously presented) The computer program product of claim 43 wherein the conversiontype indicator includes a single bit for specifying one of the at least two types of endian

conversion.

47. (currently amended) A method comprising:

from at least two types of endian conversion, including a first type each of which can be performed on a portion of a page stored within a memory system and a second type which can be performed on the same portion of the page stored within the memory system, determining a type; and

writing an entry to a memory management table based on the determining.

48. (previously presented) The method of claim 47 wherein writing an entry to a memory management table further includes specifying the location of the portion of the page within the memory system.

- 49. (previously presented) The method of claim 47 wherein the at least two types of endian conversion include a data coherent conversion.
- 50. (previously presented) The method of claim 47 wherein the at least two types of endian conversion include an address coherent conversion.
- 51. (new) The method of claim 47 wherein the first type is a data coherent conversion and the second type is an address coherent conversion.